

## Unnecessary Hospital Death



It's Time to Lead in Quality and Safety  
MASA's 2009 Annual Session  
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## Quality Problems: U.S. Hospitals

- Leape 1989 NEJM
  - 4% inpatients seriously injured
    - 14% fatal
    - 69% preventable
- 1992 Brigham and Women's
  - Drug error #1 cause of injury and unnecessary death

## Institute Of Medicine 2001

- 98,000 preventable deaths in U.S. hospitals
- “To err is human”
  - Err ≠ bad people

## Health Care Facts

- 30% of health care cost due to inefficiency
- Pulmonary embolism is #1 preventable cause of hospital death
- Ventilator associated pneumonia #1 cause of death from hospital acquired infection (adds \$40k to cost of care)
- Central line infections cause 2000 deaths (U.S.) annually

## IHI

- Institute for Healthcare Improvement
  - W. Edwards Deming PhD. 1950's
  - Apply quality engineering and manufacturing principles to medicine
  - Toyota production system

## Campaign To Save 100,000 Lives 2004

- Ventilator bundle
- DVT prophylaxis
- Stress ulcer prophylaxis
- ACT/RRT
- Central line sepsis

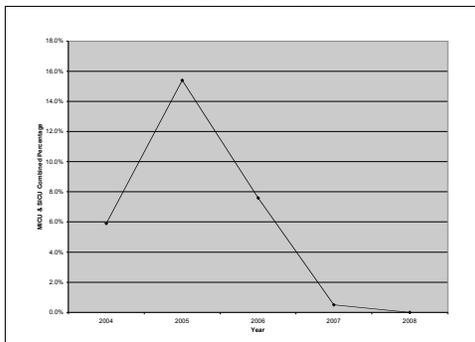
## Ventilator Bundle

- MD/RN
  - Elevation of head of bed
  - Daily sedation vacation and spontaneous breathing trial
  - GI bleed prophylaxis
  - DVT/PE prophylaxis

## Ventilator Bundle

- RCP
  - Change circuits every other day
  - Closed suction device
  - Glottic suctioning; q 2 hour mouth care

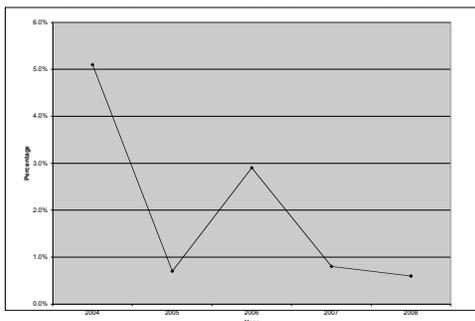
## VAP Rates



## Central Line Bundle

- Hand hygiene
- Maximum barrier protection
- Chlorhexidine skin prep
- Optimal site
- Daily review for
  - Complications
  - Necessity of line

## Catheter Related Blood Stream Infection Rates



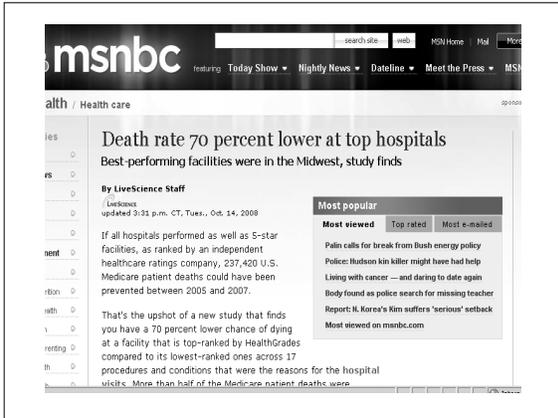
THOMSON REUTERS  
TOP HOSPITALS  
CARDIOVASCULAR  
2006-2008



Cardiology  
Associates

THOMAS  
HOSPITAL  
Infirmiry Health System

Brian Dearing, MD, FACC



The screenshot shows the HealthGrades website interface for "2009 Hospital Quality Ratings: Coronary Bypass Surgery". It features a navigation bar with "Physicians", "Hospitals", "Nursing Homes", "Health Manager", and "Contact Us". Below the navigation are tabs for "Current Ratings", "Previous Ratings", "Agency's 50 Best Hospitals", "Clinical Excellence", "Patient Safety", "Specialty", and "Quality Reports". The main content area displays a table of hospital ratings.

Hospital's Name	Location	Rating		
		Best (5 stars)	As Expected (3 stars)	Poor (1 star)
<b>High Volume Hospitals</b>				
Thomas Hospital	Fairhope, AL	★★★★★	★★★	★★★
Prisvidence Hospital	Mobile, AL	★★★★★	★★	★★★
Mobile Infirmary	Mobile, AL	★★★★★	★★	★★
Springhill Medical Center	Mobile, AL	★★★★★	★★	★★
<b>Low Volume Hospitals</b>				
State Of South Alabama Medical Center	Mobile, AL	★★★★★	★★	★★★
<b>Not Rated Hospitals</b>				
Aloosa Community Hospital, AL, AL				
B W Memorial Hospital				

**Summary**

- **What is not the problem?**
  - Not MD's, RN, CRP, Pharm, etc.
  - Is our structure
  - Is the fact that we are paid for quantity, not quality

**The End?**

**No! It is the beginning!**

**The Patient Is What It Is All About**

**Fini!!!**